

For Research Use Only

# GNB5 Polyclonal antibody

Catalog Number: 11045-2-AP

Featured Product

5 Publications



## Basic Information

**Catalog Number:**

11045-2-AP

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1518

**GenBank Accession Number:**

BC011671

**GeneID (NCBI):**

10681

**UNIPROT ID:**

O14775

**Full Name:**

guanine nucleotide binding protein (G protein), beta 5

**Calculated MW:**

39 kDa

**Observed MW:**

39-42 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:6000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Cited Applications:**

WB, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB: mouse brain tissue, human brain tissue

IP: rat brain tissue,

IHC: human ovary tumor tissue,

## Background Information

Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction. G proteins, which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit.

## Notable Publications

Author	Pubmed ID	Journal	Application
D Fuchs	25043307	Oncogene	WB
Wenna Zhang	31975557	J Cell Mol Med	WB
Christopher M Tracy	25659125	PMC Biophys	WB, IF

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

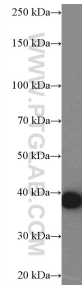
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

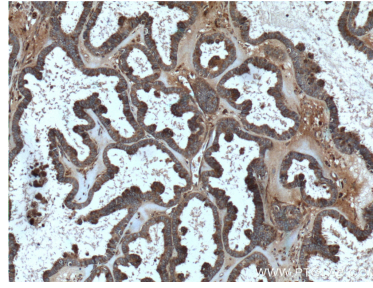
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

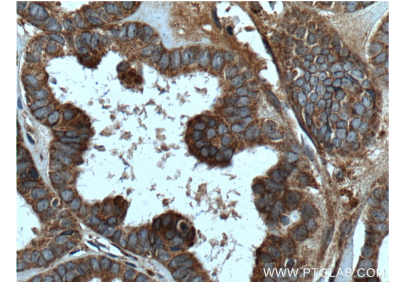
## Selected Validation Data



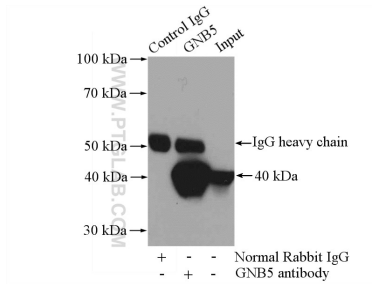
mouse brain tissue were subjected to SDS PAGE followed by western blot with 11045-2-AP (GNB5 Antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 11045-2-AP (GNB5 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 11045-2-AP (GNB5 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-GNB5 (IP:11045-2-AP, 4ug; Detection:11045-2-AP 1:500) with rat brain tissue lysate 4000ug.